PULSARLUBE

PULSARLUBE

THE WORLD LEADER OF AUTOMATIC LUBRICATORS

MASTER CATALOGUE

Pulsarlube USA, Inc
http://www.pulsarlubeusa.com

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General Information

Pulsarlube C

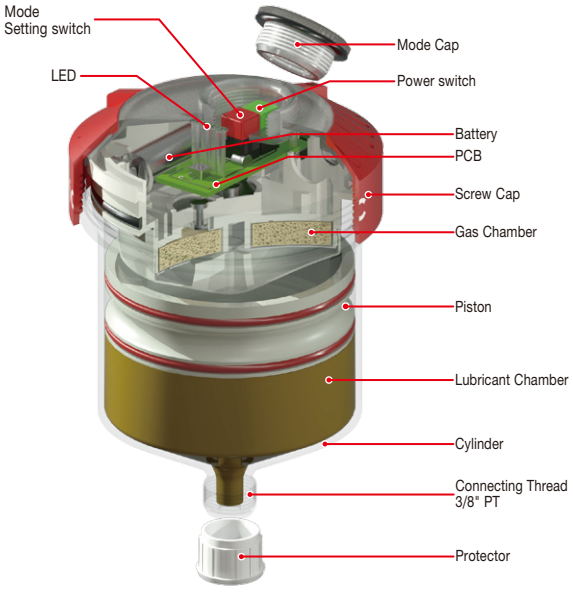
Automatic Single Point Lubricator

Overview

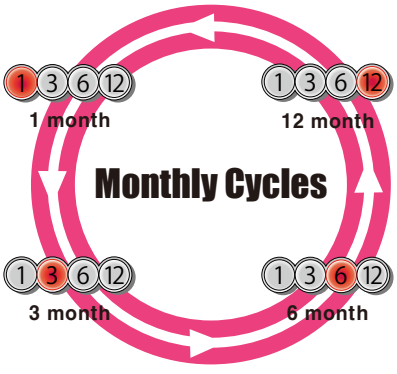
The Pulsarlube C operates upon the principle of the generation of an inert Nitrogen (N_2) gas produced by an intermittent electrical charge via a microprocessor to an electrolyte. This electro-chemical reaction allows the Pulsarlube C to dispense with very high accuracy and reliability. For added security, a Red LED blinks every 10 seconds to verify the lubricator is functioning properly. The flashing red LED feature comes in handy when checking if the lubricator is functioning properly for example at a distance in dark areas.
Below are additional benefits of the Pulsarlube C.

Specifications

Features	Specifications
Gas Type	Nitrogen (N_2) Gas
Gas Generating Method	Electrochemical
Available Dispensing Periods	1, 3, 6 & 12 months
Housing Design	Transparent Plastic
Remote Installation Distance	Max. 1m (3ft) with 8mm (5/16") O.D. tube
Operating Indicator	LED light
Operating Pressure	Max. 5kg/㎠ (70psi)
Rating / IP Code	Ex ia IIC T4 / IP68
Packaging	10 Units/Case



LED Display



Benefits
· Programming is as simple as the press of a button
· Monthly programming is indicated progressively from month to month
· Programmable for 1, 3, 6, and 12 months
· High shock resistance
· Compatible with most synthetic lubricants
· Contains LED light that assists the user to verify that the lubricator is functioning properly
· Water proof
· Intrinsically Safe

How to order

KLT100C / PL1 (125cc)
KLT200C / PL1 (250cc)
① ②

① Pulsarlube Model #
② Grease Type

• Note : The Pulsarlube C is not available in the U.S.

Pulsarlube V

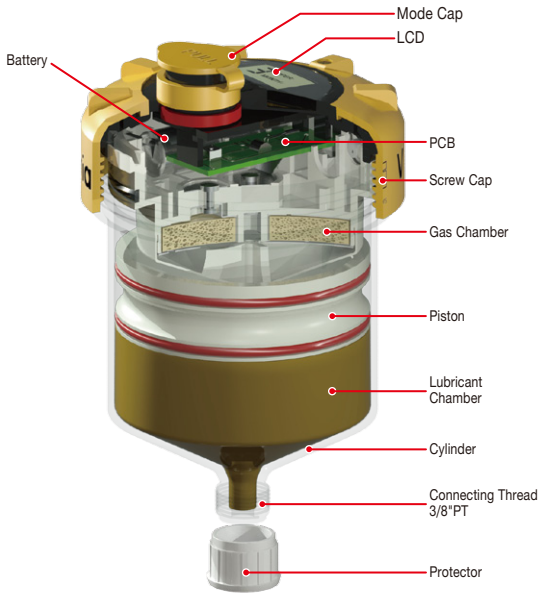
Automatic Single Point Lubricator

Overview

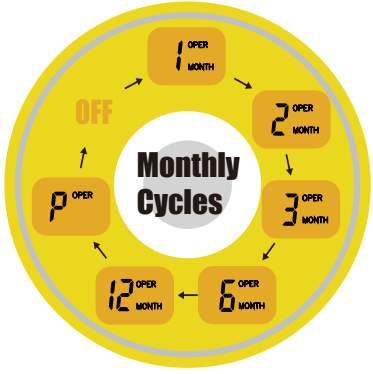
The Pulsarlube V's pro-logic microprocessor chip control allows for programming of the unit to be as simple as pressing a single button. The Pulsarlube V operates on the principle of inert Nitrogen (N_2) gas generation through the use of an electrolyte and electrical energy. Pressure is generated intermittently above the piston which delivers a fresh and precise amount of lubricant to your critical rotating equipment. The Pulsarlube V is also certified for "intrinsic safety" Ex ia IIC T4 for use in hazardous areas.

Specifications

Features	Specifications
Gas Type	Nitrogen (N_2) Gas
Gas Generating Method	Electrochemical
Housing Design	Transparent Plastic
Capacity	125cc & 250cc
Remote Installation Distance	Max. 1m (3ft) with 8mm (5/16") O.D. tube
Operating Indicator	"OPER" blinks on LCD
Available Dispensing Periods	1, 2, 3, 6, 12 months & Purge (P)
Operating Pressure	Max. 5kgf/㎠ (70psi)
Operating Temperature Range	-20℃~55℃ (-4℉~131℉)
Rating / IP code	Ex ia IIC T4 / IP54
Packaging	10 Units/Case



LCD Display



Benefits

- Programmable from 1-12 months with the simple press of a button
- Large user friendly LCD display
- Microprocessor controlled to ensure the most accurate dispensing rate
- Reprogrammable at any time if necessary
- Reduced inventory, six dispensing rates available
- Transparent for easy inspection at a glance

How to order

KLT500 / PL1 (125cc)

KLT1000 / PL1 (250cc)

① ②

① Pulsarlube Model #

② Grease Type

• Note : Use the waterproof cap provided for added protection.

Pulsarlube M

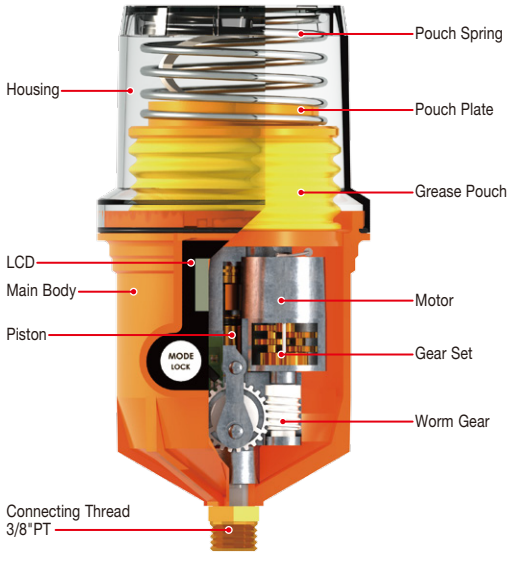
Automatic Single Point Lubricator

Overview

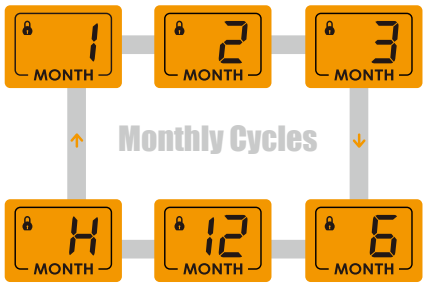
The innovative Pulsarlube M is designed to ensure reliable lubrication and at the same time cut lubrication costs with an advanced computerized control system.
It consists of a vertical feed pump, motor/gear set, and microprocessor allowing operating pressure of 30kgf/㎠ (425psi).
It is ideal for hard to reach/hazardous locations via its remote installation capability.
Below are additional outstanding benefits of the Pulsarlube M.

Specifications

Features	Specifications
Capacity	125cc, 250cc
Pump Type	Vertical Self Priming Pump
Available Dispensing Periods	Half (H), 1, 2, 3, 6 & 12 months
Operating Pressure	Avg. 30kgf/㎠ (425psi) Max. 60kgf/㎠ (850psi)
Operating Temperature Range	-15℃~60℃ (5℉~140℉) -40℃~60℃ (-40℉~140℉) with an Optional Lithium Battery Pack
Battery	DC 4.5V Alkaline Standard Battery Pack (Replaceable)
Installation Thread Size	3/8" PT
Dispensing Volume	0.34cc/Piston Stroke (0.33±0.01 grams/stroke) @ 20℃
Lube Cycle	13.5 Sec/Cycle
IP Code	IP54
Multi Point Lubrication	Can lubricate up to 8 points, 6 meters (20ft) per point through the use of a divider block
Product Certifications	UL listed 4DA2 & CE certified
Packaging	8 Units/Case



LCD Display



Benefits

- Built-in Large LCD makes it easy to read and provides all necessary information to optimally monitor your equipment. Easy-to-decipher indicators on LCD assist you in understanding the condition of your lubricator and lube point at a glance
- User Friendly Programming is simple with the press of a single button
- Environmentally Friendly "Go Green!" Pulsarlube M is reusable!
- High Operating Pressure 30kgf/㎠ (425 psi) allows for remote installation of up to 8 points, max 6 meters (20ft) per point. This permits you to conveniently lubricate hazardous and hard to reach areas
- Variable Settings - 6 optional dispensing periods from 1, 2, 3, 6, 12 and half month
- The Pulsarlube M's innovative, well balanced design and possession of a tempered steel shaft with a brass finish tip allows the M unit to excel in high vibration applications
- A microprocessor chip accompanied along with a powerful positive displacement pump enables the Pulsarlube M to effortlessly dispense an exact amount of fresh lubricant at precisely programmed intervals

How to order

KLT125 / PL1 (125cc)
KLT250 / PL1 (250cc)
① ②

① Pulsarlube Model #
② Grease Type

Pulsarlube EX

Automatic Single Point Lubricator

Overview

The Pulsarlube EX is a Class I, Division 2, Group C, D certified, battery operated, single point lubricator with a powerful positive displacement pump engineered to reliably lubricate your equipment.
The Pulsarlube EX is specially designed with a modified enclosure rated for limited hazardous locations Class I, Div. II, Sec. C, D.

Specifications

Features	Specifications
Capacity	125cc & 250cc
Available Dispensing Periods	Half (H), 1, 2, 3, 6 & 12 months
Operating Pressure	Max. 15kgf/㎠ (200psi)
Operating Temperature Range	-10°C~50°C (14°F~122°F)
Battery	DC 4.5V Alkaline Standard Battery Pack (Replaceable)
Installation Thread Size	3/8" PT
Remote Installation Distance	Max. 3m (10ft) with a single 6mm (1/4") line
Packaging	8 Units/Case

Description of certifications

	UL	ATEX	KTL
Rating	Class I Division 2 Groups – C, D	EEX nL IIB T5 IP54	EEX nC IIB T5 IP54
Gas groups	D-C1 I Div 1/2	II A	II A
	D-C1 I Div 1/2	II B	II B
Maximum Surface Temp	T6 (85°C)	T5 (100°C)	T5 (100°C)
Enclosure protection indices	–	IP54	IP54
Classification of hazardous locations	D-C1 I Div 1/2 C1 I Zone 2 (gas)	Zone 2 (gas) Zone 22 (dust)	–
Certification File#	E304815	–	2007-1167-Q1

UL Certification for Hazardous Areas

The Pulsarlube EX has been tested by UL labs and meets the following requirements: UL79, Power-operated pumps for petroleum-dispensing products, ANSI/ISA 12.12.01-2000 (8th edition), Non-incendive electrical equipment for use in Class I, Div. 2, Group C, D.

Rating	Certification Description
CLASS I	Flammable gases, vapors, or liquids
DIVISION 2	Where ignitable concentrations of flammable gases, vapors, and liquids are not likely to exist under normal operating conditions
GROUPS - C, D	C (Ethylene), D (Propane)

How to order

EX125 / PL1 (125cc)
EX250 / PL1 (250cc)
① ②

① Pulsarlube Model #
② Grease Type

Caution

- Always use a Pulsarlube OEM battery pack.
- Power off the lubricator before accessing the battery pack for any reason.

Pulsarlube MS

Automatic Single Point Lubricator

Overview

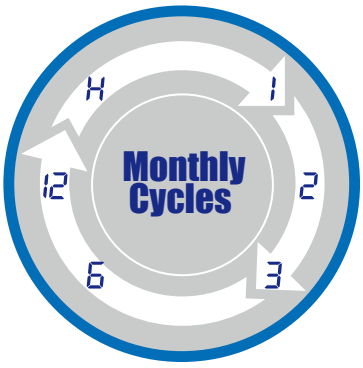
The Pulsarlube MS is engineered to operate in synchronization with the equipment on which it is installed. The MS unit will dispense the preset amount of grease as long as the machine is operating. If the equipment is not on, then the Pulsarlube MS unit goes into "stand-by-mode" and does not dispense lubricant until the machine goes back into operation.
The Pulsarlube MS can prevent any waste of lubricant as well as damage or loss to your equipment resulting from over-lubrication.

MS Lubricator Specifications

Features	Specifications
Capacity	125cc & 250cc
Operating Pressure	Avg. 30kgf/㎠ (425psi) Max. 60kgf/㎠ (850psi)
Operating Temperature Range	-15℃~60℃ (5℉~140℉) -40℃~60℃ (-40℉~140℉) with an Optional Lithium Battery Pack
Battery	DC 4.5V Alkaline Standard Battery Pack (Replaceable)
Multi Point Lubrication	Can lubricate up to 8 points
Packaging	4 Units/Case (Includes Relay Box)

MS - Relay Box
INPUT : AC 100 ~ 440V 0.5W
OUTPUT : Open Collector Type
MODEL : MS - OCT
SERIAL No : 07091
KLT Co., Ltd. / Pulsarlube USA, Inc
Wiring
(OUTPUT)

LCD Display



MS Relay Box Specifications

Features			Specifications
Voltage Rate Input Range			AC 100~440V, 0.5W/50~60Hz
Voltage Rate Output Range			Signal (Open collector type)
Power ON Indicator			Red LED will display
Relay Box Dimensions (mm)			85mm (L) x 49mm (W) x 32mm (H)
Wire length	From Power supply	Input	1 Meter
		Output	4.5 Meters
	From MS Lubricator		90mm

How to order

MS125 / PL1 (125cc)
MS250 / PL1 (250cc)
① ②

① Pulsarlube Model #
② Grease Type

• Note : The battery pack must be replaced along with the grease pouch to ensure reliable lubrication.

Pulsarlube MSP

Automatic Single Point Lubricator

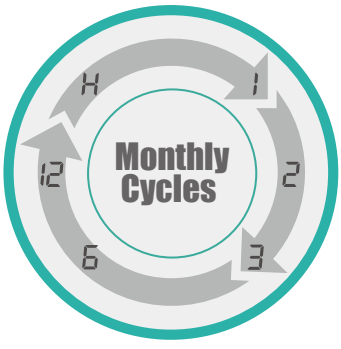
Overview

The Pulsarlube MSP unit offers the advantage of providing automatic lubrication to machinery that is infrequently or intermittently used by synchronizing itself to the equipment, thereby avoiding the problem of over lubrication.
The Pulsarlube MSP will dispense a preset amount of grease as long as the machine is operating and does not dispense lubricant if the equipment stops.
The unit goes into "stand-by-mode" until the machine goes back into operation.
The MSP lubricator can be externally powered by the machine or the PLC.
There is no need to replace the battery pack in the MSP for up to 5 years.

MSP Lubricator Specifications

Features	Specifications
Capacity	125cc, 250cc & 500cc
Operating Pressure	Avg. 30kgf/㎠ (425psi)
Operating Temperature Range	-15℃~60℃ (5℉~140℉) -40℃~60℃ (-40℉~140℉) with an Optional Lithium Battery Pack
Battery	DC 4.5V Alkaline Battery Pack (Avg. service life : 5 years)
Multi Point Lubrication	Can lubricate up to 8 points
Packaging	4 Units/Case (Includes a power supply)

LCD Display



Specifications for MSP power supply

Features			MSP VAC AC-DC Adapter	MSP VDC DC-DC Converter
Voltage Rate Input Range			100 ~ 220V, 0.5A 50 ~ 60 Hz	12V ~ 24V
Voltage Rate Output Range			5.0V, 2A	
Power ON Indicator			RED LED	
Relay Box Dimensions (mm)			85(L) x 49(W) x 32(H)	
Wire Length	From Power Supply	Input	1 Meter	
		Output	4.5 Meters	
	From MSP Lubricator		90mm	

How to order

MSP125 / VDC / PL1
MSP250 / VAC / PL1
MSP500 / VDC / PL1
① ② ③

① Pulsarlube Model #
② Power Supply Type
③ Grease Type

Pulsarlube ML500

Automatic Single Point Lubricator

Overview

The Pulsarlube ML500 is primarily designed to ensure reliable lubrication of larger bearings (i.e. 〉102 mm = 4" O.D.) commonly found in industries such as mining, cement, and steel.

The lubricant is supplied in 500cc volumes per grease pack, which is replaceable along with a Pulsarlube battery pack.

The ML500 offers 8 optional dispensing rates from Half (H) to 24 months.

The ML500 gives you double the value with its increased grease volume capacity and double the programmable time, ultimately increasing your equipment's uptime and your bottom line.

Specifications

Features	Specifications
Capacity	500cc (Replaceable Grease Pack)
Pump Type	Vertical Self-Priming Pump
Operating Pressure	30kgf/㎠ (425psi)
Battery	Optional DC 4.5V Standard Alkaline or Lithium Battery Pack
Temperature Range for Battery Selection	-10°C~50°C (14°F~120°F) @ Standard Alkaline -40°C~60°C (-40°F~140°F) @ Low temp. Lithium
IP code	IP 54
Packaging	8 Units/Case

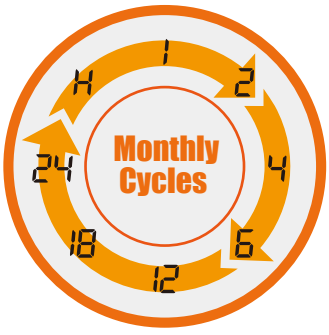
Battery selection is necessary to use Pulsarlube ML500 with large volume, long-term mode of up to 24 months, and remote multi-point installation.

Features of the Pulsarlube ML500

- Large 500cc grease capacity
- Operates in wide temp range from -10℃~60℃ (14°F~140°F)
- Unrivaled operating pressure over 30kgf/㎠ (425psi)
- 8 variable dispensing options from 1/2 to 24 months in a single unit
- Lubricate up to 8 points 6m (20ft) per line
- Easy-to-replace grease and battery pack within seconds

Note: Battery pack type needed may vary depending upon type of application. Please see chart below.

LCD Display



Battery Selection Guide

Application	Alkaline Battery Pack	Lithium Battery Pack
Multi Point Lubrication	N/A	Up to 8 points
Remote Installation	3m (10ft) or less on a single line	Handles up to 6m (20ft) per line
Operating Temp Range	-10℃ ~ 50℃ (14°F~122°F)	-40℃ ~ 60℃ (-40°F~140°F)
Programming	Up to 12 months	Up to 24 months

How to order

ML500 / PL1 (500cc)
ML501 / PL1 (500cc)
① ②

① Pulsarlube Model #
(ML500: w/Alkaline Battery, ML501: w/Lithium Battery)
② Grease Type

• Note : Please follow user manual instructions carefully when replacing grease pouch and battery pack.

Pulsarlube OL500

Automatic Single Point Lubricator

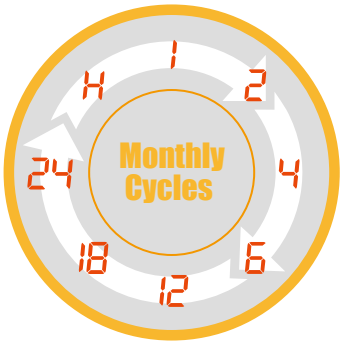
Overview

The Pulsarlube OL500 is our latest innovation in oil lubrication specifically designed to deliver a fresh, consistent, and precise amount of oil to all of the vital parts of your rotating equipment.
The precise and reliable lubrication of the Pulsarlube OL500 significantly reduces wear, oil consumption, and also extends the service life of your machinery; thus cutting high maintenance costs in half. The OL500 is easily refillable.

Specifications

Features	Specifications
Capacity	500cc
Available Dispensing Periods	Half (H), 1, 2, 4, 6, 12, 18 & 24 months
Operating Pressure	Avg. 10kgf/㎠ (145psi) depends on oil viscosity
Operating Temperature Range	-15°C~60°C (5°F~140°F) -40°C~60°C (-40°F~140°F) with an Optional Lithium Battery Pack
Oil Viscosity Range	150~10,000 cSt @40°C
Battery	DC 4.5V Alkaline Standard Battery Pack (Replaceable)
Multi Point Lubrication	Up to 4 points through the use of remote installation kit
Packaging	8 Units/Case

LCD Display



Necessary assembly kits for remote multi-point installation

No.	Item #	Description
1	1250RO-1	1-point remote installation kit for Pulsarlube OL500
2	1250RO-2	2-point remote installation kit for Pulsarlube OL500
3	1250RO-3	3-point remote installation kit for Pulsarlube OL500
4	1250RO-4	4-point remote installation kit for Pulsarlube OL500
5	C030	Oil Brush & Bracket Kit

· Note: Oil brush not included in the 1250RO series

How to order

OL500 (500cc)
①

① Pulsarlube Model #

Caution

- Turn the black hand knob on top of the lubricator's housing counterclockwise 2 to 3 times to open the vent.
- When refilling oil, check the mesh filter inside of the oil container and remove any debris if present.
- Avoid running the OL500 on empty to prevent possible air jam/air lock.

Note: The Pulsarlube OL500 is supplied empty by manufacturer.
Please contact local distributor for other options.

Pulsarlube S

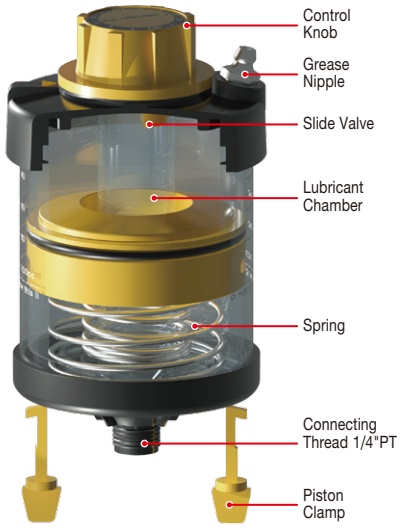
Automatic Single Point Lubricator

Overview

The innovative Pulsarlube S has a very unique and scientific design which has solved many issues that have plagued spring type lubricators for decades.
The Pulsarlube S possesses an ingenious new design that contains a spring at the bottom, which in turn pushes the lubricant upward into the lubricator's grease intake orifice, then down a guide sleeve and into the lubrication point.
This new paradigm dramatically diminishes the problem of oil separation because it is pushing up not down. The upward piston movement prevents the possibility of oil from dripping out due to the effect of gravity and maintains the lubricant as a whole within the chamber, thereby preventing hardening of the grease and allowing the lubricator to completely empty out its contents.

Specifications

Features	Specifications
Capacity	100cc
Operating Temperature Range	-23℃~121℃ (-10℉~250℉)
Installation Thread Size	1/4" PT Resilient Composite Plastic
Dimensions	Ø67mm (2.64") x (H) 129mm (5.08")
Packaging	10 Units/Case



Dial Display

Benefits
· Dramatically reduces oil separation while in storage due to its strategically placed piston clamps
· Can be installed right out of the box (Available Pre-filled)
· Much more reliable and effective than any other conventional spring type lubricator due to the fact that oil separation has been reduced to a bare minimum
· User friendly
· Contains a variety of dispensing rates to suit all applications
· Simple to refill

How to order

KLT1500 / PL1
① ②

① Pulsarlube Model #
② Grease Type

Caution

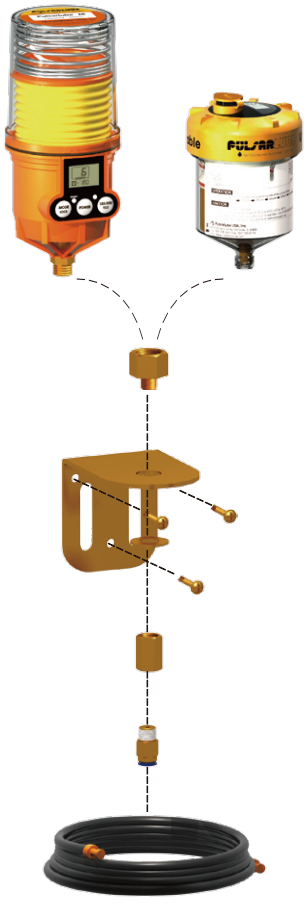
- Overfilling of grease may cause damage to the lubricator. When filling, the piston should not be allowed to go below the line marked "Do not fill below this line".
- Use a manual grease gun to refill the Pulsarlube S.

Note: The Pulsarlube S is not a "time" programmable lubricator. Our spring type lubricator will simply dispense lubricant into the bearing housing as needed via a phenomenon called the "Venturi effect". A proper amount of lubricant is dispensed into the bearing through this method. For this reason, the installation of the Pulsarlube S on open/unshielded bearings is not recommended.

Remote Installation Kits

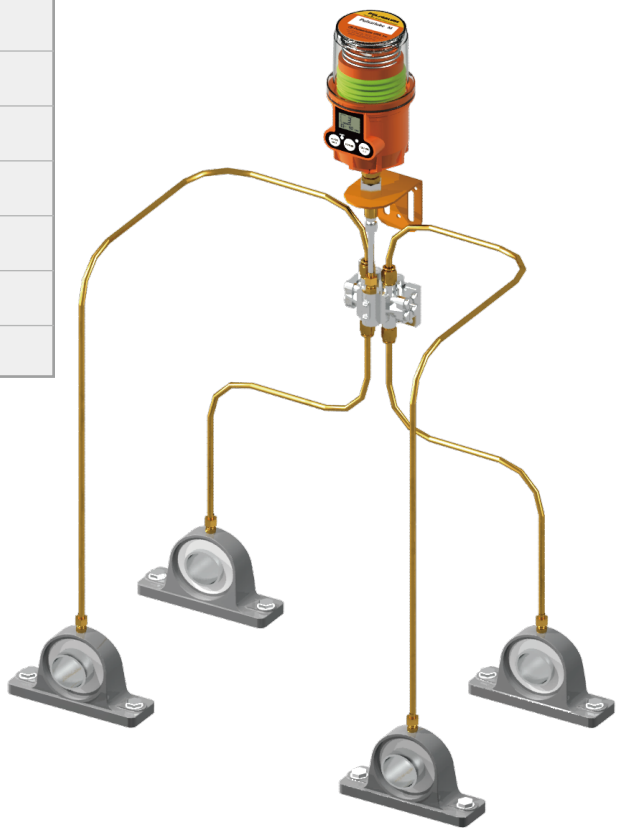
Remote Installation Kits for Pulsarlube M & V

Item #	Description
1000RC-1	Single Point Remote Installation Kit for gas type units
1250RC-1	Single Point Remote Installation Kit for mechanical type units



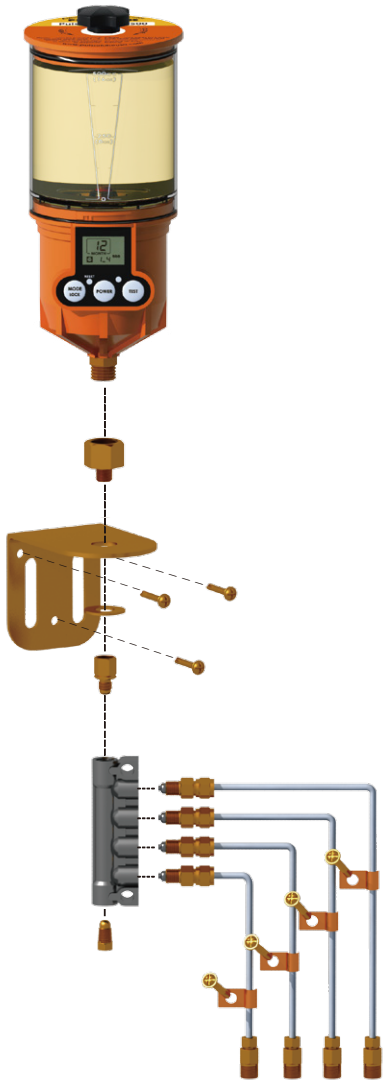
Remote Installation Kits for Pulsarlube M & ML500

Item #	Description
1250MD-2	2 Point Remote Installation Kit
1250MD-3	3 Point Remote Installation Kit
1250MD-4	4 Point Remote Installation Kit
1250MD-5	5 Point Remote Installation Kit
1250MD-6	6 Point Remote Installation Kit
1250MD-7	7 Point Remote Installation Kit
1250MD-8	8 Point Remote Installation Kit



Remote Installation Kits for Pulsarlube OL500

Item #	Description
1250RO-1	Single Point Remote Installation Kit (Oil Brush not included)
1250RO-2	2 Point Remote Installation Kit (Oil Brush not included)
1250RO-3	3 Point Remote Installation Kit (Oil Brush not included)
1250RO-4	4 Point Remote Installation Kit (Oil Brush not included)
C030	Oil Brush and Bracket Kit



Pulsarlube Grease Selection Guidelines

Pulsarlube Standard Grease	Grease Type	Description
PL1	Multi Purpose	High performance NLGI #2 grease for multipurpose applications
PL2	Heavy Duty	High performance NLGI #2 EP grease for heavy-duty applications
PL3	High Speed	High performance NLGI #2 grease specially designed for high-speed applications
PL4	Food Grade	USDA H1 rated NLGI #2 high performance Aluminum Complex grease for food applications
PL5	Hi Temperature	Synthetic high performance NLGI #2 grease for high temperature applications
PL7	Cold Temperature	High performance low temperature grease

Dispensing Recommendations

In the chart below are some guidelines for bearing lubrication requirements.
Requirements may vary with individual bearing types or operating conditions.

Bearing Shaft Dia	125cc		250cc		500cc	
	Month	cc/Day	Month	cc/Day	Month	cc/Day
230~330mm (9"~13")	N/A	-	N/A	-	½ Month	33.3
116~229mm (6½"~9")	N/A	-	½ Month	16.6	1 Month	16.6
102~165mm (4"~6½")	½ Month	8.3	1 Month	8.3	2 Months	8.3
90~101mm (3½"~4")	1 Month	4.2	2 Months	4.2	3 Months	4.2
77~89mm (3"~3½")	2 Months	2.8	3 Months	2.8	6 Months	2.8
65~76mm (2½"~3")	3 Months	1.4	6 Months	1.4	12 Months	1.4
					18 Months	0.9
51~64mm (2"~2½")	6 Months	0.7	12 Months	0.7	24 Months	0.7
25~50mm (1"~2")	12 Months	0.3	N/A	-	N/A	-

Pump Dispensing Cycles for Mechanical Lubricators

CC / MODE (Month)	125cc		250cc		500cc	
	Time Intervals	Cycles/Day	Time Intervals	Cycles/Day	Time Intervals	Cycles/Day
½	1 Hour	24	30 Minutes	48	15 Minutes	96
1	2 Hours	12	1 Hour	24	30 Minutes	48
2	4 Hours	6	2 Hours	12	1 Hour	24
3	6 Hours	4	3 Hours	8	N/A	-
4	N/A	-	N/A	-	2 Hours	12
6	12 Hours	2	6 Hours	4	3 Hours	8
12	24 Hours	1	12 Hours	2	6 Hours	4
18	N/A	-	N/A	-	9 Hours	2.66
24	N/A	-	N/A	-	12 Hours	2

MEMO

General Information

The appearance and size of our products are subject to change without prior notice for purposes of quality improvement.

OEM filling is available upon request under special terms and conditions. Please contact your local distributor or the manufacturer.

Warranty

Pulsarlube USA, Inc. guarantees the product to be free of defects, in material and workmanship, for a period of 12 months from the date of purchase.

Warranty is limited to replacement of the product.

For further inquiries, feel free to call us at: Pulsarlube USA, Inc
Tel : 847-795-0591, Fax: 847-795-0119, website : www.pulsarlubeusa.com

Automatic Single Point Lubricator
· Model : KLT-1250
· Electrical Rating : DC 4.5V (Replaceable)
· Ambient Range : from -15 to + 60˚C (from 5 to 140
· Operating Pressure : 30kgf/cm² (280psi)
· Maximum Outlet Pressure : 80kgf/cm² (1,160psi)
· Working Fluid : Lubricating Grease
Pulsarlube USA, Inc / KLT Co.,Ltd.
http://www.pulsarlubeusa.com

Distribution by :